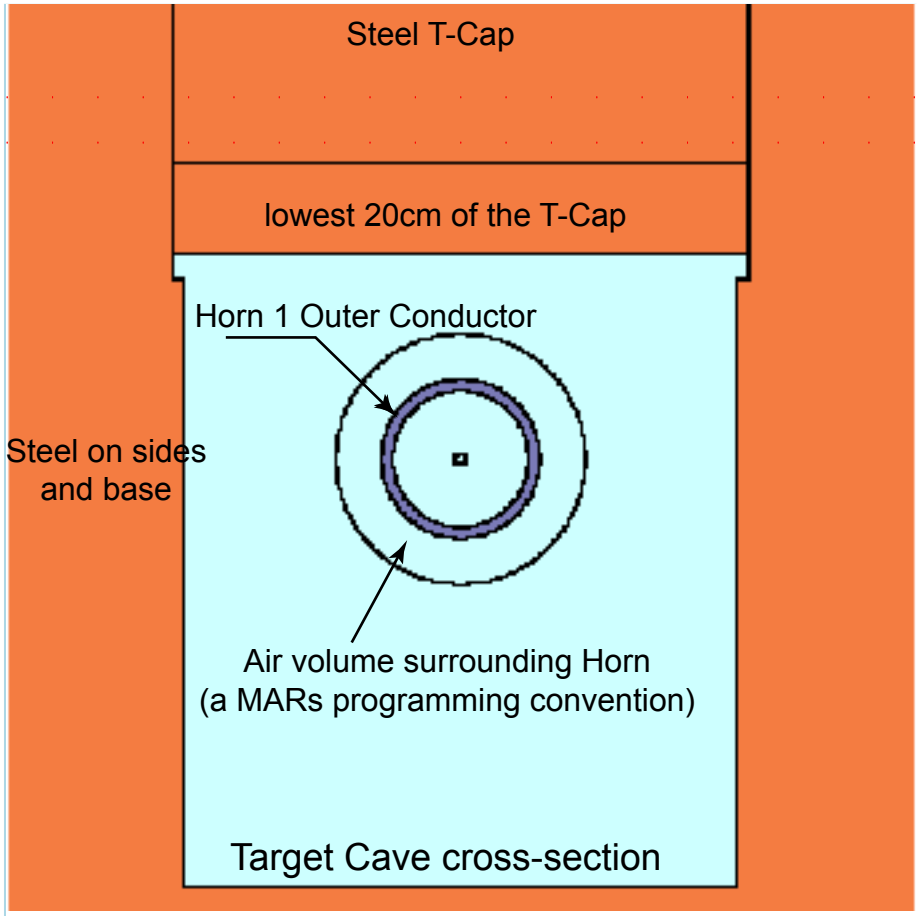
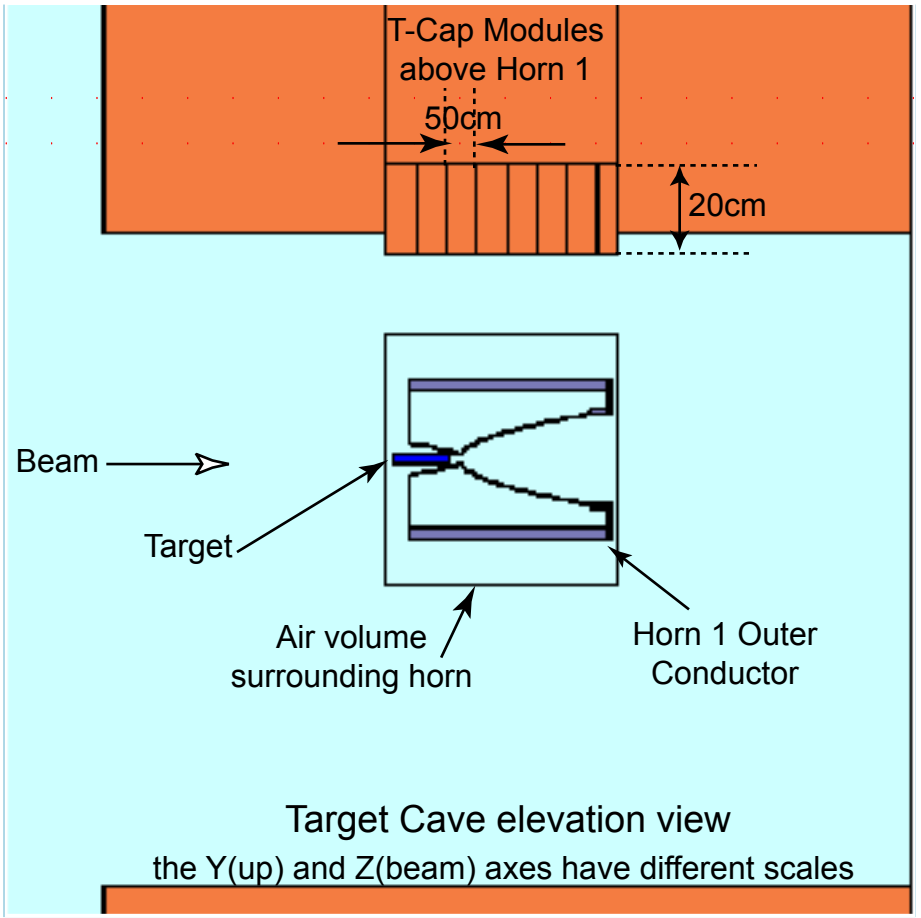
# Residual rates on steel at the base of Horn 1 T-caps 30/1 scenario




The lowest 20cm of steel in the T-cap above Horn 1was broken into 7 slices - 20cm tall x 50cm deep x width of T-cap.
The slices do not coorespond to physical T-Cap units they are just an easy sub-division.

## Horn 1 Outer Conductor results

Residual rate 4.986 E+03 mSv / hr @ 4E13 per pulse 30/1
Energy deposition 1.118 E-05 GeV/g per primary
or 2.555 E-00 GeV per primary
Charged hadron flux 1.309 E-03 ptcl / cm2 per primary
Neutron flux 4.586 E-03 ptcl / cm2 pp
Gamma flux 3.068 E-02 ptcl / cm2 pp
Electron flux 3.934 E-03 ptcl / cm2 pp

no energy cut-off on flux scoring

## Steel Residual Results

From upstream to downstream
Slice 1 - 3.854 E+02
Slice 2 - 6.239 E+02
Slice 3 - 7.647 E+02
Slice 4 - 8.480 E+02
Slice 5 - 7.791 E+02
Slice 6 - 7.255 E+02
Slice 7 - 3.720 E+02

Residual units are mSv / hr
statistical relative errors
are ~10% on the steel
and ~1% on the horn